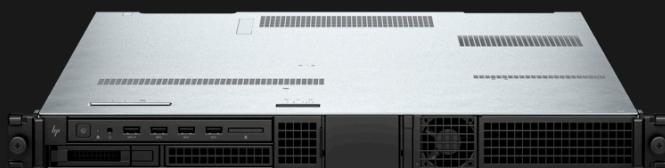


HP Z4 Rack G5 Workstation

Compactly Rackable. Uniquely Powerful



Empower a flexible workforce with Z by HP pro-level performance in a high-density 1U footprint. Specifically designed to pack more units in a single rack, this slim powerhouse delivers the performance your team needs. All with the ability to upgrade and expand as compute demands evolve.

1:1 Dedicated AI Workstation Power.

Empower remote teams with the powerful and expandable Z4 Rack AI workstation. Access dedicated performance from almost any end point device with HP Anyware.² Add the HP Anyware Remote System Controller and manage hardware from a single interface.³

Workhorse Power. Compact 1U size

This 1U AI workstation packs impressive power for local generative AI, 3D modeling and advanced VFX. Get up to 26 cores in an Intel® Xeon® W-2500 CPU,⁴ support for NVIDIA RTX™ 6000 Ada graphics,⁵ and up to 256 GB DDR5 memory.⁶

Accelerating advanced AI in-house

Accelerate AI development and inferencing with the Z4 Rack AI workstation, with up to 1 NVIDIA RTX™ 6000 Ada Generation GPUs¹ delivering up to 1,457 AI TOPS for advanced AI. Work faster more securely by keeping files and data on a local workstation.

Designed with the planet in mind

At HP, we care about the impact our products have on our people, communities, and the planet. Z products are designed with sustainability at the forefront. So, you can take pride in choosing Z, knowing that you are helping protect our shared future.⁷



HP Z4 Rack G5 Workstation



Operating Systems

Support your unique user needs with a choice of Windows 11 Pro for Workstations, or Linux® operating systems.⁹

Intel® Xeon® W-Series Processors

Get the performance and productivity you need to run demanding professional applications with up to a 26-core Intel® Xeon® W-series processor and ECC Memory for data reliability.^{4,11}

NVIDIA RTX™ Graphics

Tackle advanced visual effects, rendering, and simulation projects with up to one NVIDIA RTX™ 6000 Ada GPU or support for up to two NVIDIA RTX™ 4000 Ada GPUs.¹²

Memory

Accelerate your workflow and power through memory-intensive workloads with up to 256 GB DDR5 ECC memory for fast visualization, advanced visual effects, and rendering.¹³

Storage

Get max storage across a variety of device options, including two front-accessible NVMe bays, dual pro PCIe devices, and two onboard M.2 connectors.¹⁴

HP Anyware software

Your team can access the power of the Z4 Rack from any device with HP Anyware software, delivering fast responsiveness and image quality, even under varying network connections.²

HP Anyware Remote System Controller

When paired with Z by HP desktops IT managers can perform out-of-band management tasks such as pre-boot access, BIOS updates, and re-imaging—from anywhere.³

Power Supply

With dual power supply, you have power to stay up and running. Choose an aggregated option—combining two 675W power supplies—or a redundant option for critical workflows.¹⁵

Expansion Slots

Support the highest performance workflows, today and beyond, with up to three PCIe x16 Gen 5 slots.¹⁶

More Units in Your Data Center

Maximize space with this compact 1U workstation. Get 4x the number of units in a standard full-size rack than you would with a HP Z4 G5, and deliver dedicated power to more of your users.

Rack Kit

The HP Z4 Rack Rail Rack Kit provides 26 inches of travel, allowing the unit to slide completely out of the rack for servicing and installation.¹⁷

Long Lifecycle

Designed for simpler IT management, the Z4 Rack is built for longevity with a multi-year lifecycle. Plan for the future and avoid re-qualifying devices yearly, saving you time and money.



HP Z4 Rack G5 Workstation

Specifications Table

Available Operating Systems	Windows 11 Pro for Workstations ^{1,22} Ubuntu 22.04 LTS Linux® Ready ² Red Hat® Enterprise Linux® Ubuntu 24.04 LTS
Processor family ^{3,4}	Intel® Xeon® W processor
Available Processors ²⁴	Intel® Xeon® W7-2595X (up to 4.8 GHz with Intel® Turbo Boost Technology, 48.75 MB L3 cache, 26 cores, 52 threads) Intel® Xeon® W7-2575X (up to 4.8 GHz with Intel® Turbo Boost Technology, 45 MB L3 cache, 22 cores, 44 threads) Intel® Xeon® W5-2565X (up to 4.8 GHz with Intel® Turbo Boost Technology, 37.5 MB L3 cache, 18 cores, 36 threads) Intel® Xeon® W5-2555X (up to 4.8 GHz with Intel® Turbo Boost Technology, 33.75 MB L3 cache, 14 cores, 28 threads) Intel® Xeon® W5-2545 (up to 4.7 GHz with Intel® Turbo Boost Technology, 30 MB L3 cache, 12 cores, 24 threads) Intel® Xeon® W3-2535 (up to 4.4 GHz with Intel® Turbo Boost Technology, 26.25 MB L3 cache, 10 cores, 20 threads) Intel® Xeon® W3-2525 (up to 4.3 GHz with Intel® Turbo Boost Technology, 22.5 MB L3 cache, 8 cores, 16 threads) Intel® Xeon® W3-2435 (up to 4.3 GHz with Intel® Turbo Boost Technology, 22.5 MB L3 cache, 8 cores, 16 threads) Intel® Xeon® W3-2425 (up to 4.2 GHz with Intel® Turbo Boost Technology, 15 MB L3 cache, 6 cores, 12 threads) Intel® Xeon® W3-2423 (up to 4.0 GHz with Intel® Turbo Boost Technology, 15 MB L3 cache, 6 cores, 12 threads)
Chipset	Intel® W790
Form factor	1U rackable workstation
Maximum memory	256 GB DDR5-4800 ECC SDRAM ⁷ Transfer rates up to 4800 MT/s.
Memory slots	4 DIMM
Internal storage	1 TB up to 12 TB 7200 rpm SATA Enterprise ⁵ 512 GB up to 4 TB HP Z Turbo Drive PCIe® NVMe™ SSD M.2 ⁵ 512 GB up to 4 TB HP Z Turbo Drive PCIe® NVMe™ SED Opal 2 M.2 SSD ⁵ 512 GB up to 4 TB HP Z Turbo Drive Dual Pro PCIe® SSD ⁵
Available Graphics	Ultra High-End: NVIDIA RTX™ 6000 Ada Generation (48 GB GDDR6 dedicated) NVIDIA RTX™ 5000 Ada Generation (32 GB GDDR6 dedicated) NVIDIA RTX™ 5880 Ada Generation (48 GB GDDR6 dedicated) NVIDIA RTX™ Pro 5000 Blackwell Generation (48 GB GDDR7 dedicated) NVIDIA RTX PRO™ 6000 Blackwell Max-Q (96 GB GDDR7 dedicated) High-End: NVIDIA RTX™ 4500 Ada Generation (24 GB GDDR6 dedicated) NVIDIA RTX™ A4500 (20 GB GDDR6 dedicated) NVIDIA RTX™ 4000 Ada Generation (20 GB GDDR6 dedicated) NVIDIA RTX™ 2000 Ada Generation (16 GB GDDR6 dedicated) AMD Radeon™ Pro W7500 (8 GB GDDR6 dedicated) AMD Radeon™ Pro W7600 (8 GB GDDR6 dedicated) AMD Radeon™ Pro W6800 (32 GB GDDR6 dedicated) NVIDIA RTX™ A1000 (8 GB GDDR6 dedicated) NVIDIA RTX™ A400 (4 GB GDDR6 dedicated) NVIDIA RTX™ Pro 4000 Blackwell Generation (24 GB GDDR7 dedicated) NVIDIA RTX™ Pro 4500 Blackwell Generation (32 GB GDDR7 dedicated) NVIDIA RTX™ Pro 2000 Blackwell Generation (16 GB GDDR7 dedicated) NVIDIA RTX™ 2000E Ada Generation (16 GB GDDR6 dedicated) ²³ Mid-Range: AMD Radeon™ Pro W7500 (8 GB GDDR6 dedicated) AMD Radeon™ Pro W7600 (8 GB GDDR6 dedicated) Entry:
Audio	Realtek ALC3205-CG
Expansion slots	2 M.2 PCIe 4 x4; 1 PCIe 5 x16 mechanical (x8 electrical); 1 PCIe 5 x8 mechanical (x8 electrical); 1 PCIe 5 x16 mechanical (x8 or x16 electrical) (PCIe slots 2 and 3 only come standard if the configuration demands them. Otherwise, they are an optional add-on feature via the Dual Slot Riser, which can be configured CTO or aftermarket.)
Ports and connectors	Front: 4 USB Type-A 5Gbps signaling rate (1 charging); 1 headset connector ; Rear: 2 USB Type-A 5Gbps signaling rate; 1 RJ-45 ; Optional Ports: Front Premium Version: 1 headset connector; 2 SuperSpeed USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge); 2 SuperSpeed USB Type-A 5Gbps signaling rate (1 charging)



HP Z4 Rack G5 Workstation

Specifications Table

Keyboard	HP 320K Wired Keyboard ⁸
Mouse	HP Wired Desktop 320M mouse ⁸
Communications	LAN: Intel® Ethernet Network Adapter I225-T1; NVIDIA® Mellanox ConnectX-6 DX Dual Port 10/25GbE SFP28 NIC; Allied Telesis AT-2911T/2-901 dual-port 1GbE NIC; Allied Telesis AT-2914SX/LC PCIe Fiber NIC; Intel® X550-T2 dual-port NIC; HP 1 GbE LC Fiber Flex IO port; HP 10 GBASE-T Flex IO port; HP 2.5 GbE Flex IO port; Intel® Ethernet Network Adapter I226-T1; Intel® E810-XXVDA2 10/25GbE SFP28 PCIe Network Adapter; Broadcom 5720 1GbE RJ45 PCIe Ethernet ²⁵ ;
Drive Bays	External: Two 2.5" M.2; Internal: Two 2.5" M.2 or one 3.5" SATA ⁶
Software	HP PC Hardware Diagnostics UEFI HP Performance Advisor HP Support Assistant HP PC Hardware Diagnostics Windows HP Privacy Settings HP Desktop Support Utilities HP Manageability Integration Kit HP Notifications HP Anyware HP Data Science Stack HP Services Scan HP Data Science Stack Manager myHP ^{8,10,11,12,26,27,30,32}
Available software	HP Smart Support
Security management	Full volume encryption; HP Secure Erase; Kensington lock slot; Secure authentication; TPM 2.0 certified; HP BIOSphere; HP Sure Run; HP Sure Click; HP Sure Sense; HP Sure Admin; HP Platform Certificate; HP Sure Start; HP Sure Recover; Self-Encrypted Drives ^{13,14,15,16,17,18,19,20}
Security Software Licenses	HP Wolf Pro Security Edition ²¹
Management features	HP Anyware Remote System Controller; HP Client Management Script Library (download); HP Cloud Recovery; HP Driver Packs; HP Image Assistant Gen5 (download) ^{8,28,29,31}
Power	675 W internal power supply, up to 90% efficiency, active PFC; Two 675 W internal redundant power supply, up to 90% efficiency, active PFC; Two 675 W internal aggregated power supply (total 1350W), up to 90% efficiency, active PFC
Dimensions	4.3 x 43.8 x 65.6 cm (without rack mounting ears)
Weight	Starting at 9.5 kg (without rack rails); Starting at 12.5 kg (with rack rails); (Exact weight depends on configuration.)
Ecolabels	EPEAT® registered configurations available ⁹
Energy star certified	ENERGY STAR® certified (configurations available)
Warranty	1 year (1/1/1) limited warranty includes 1 year of parts, labor and on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.



HP Z4 Rack G5 Workstation

Accessories and services (not included)

Intel X550 10GBASE-T Dual Port NIC



Get affordable, full line-rate performance with CAT 6a cabling or better at distances up to 100 meters and support for business and virtualization features with the Intel® X550 10GBASE-T Dual Port NIC.

Product number: 1QL46AA

HP Z4 Rack G5 Workstation

Messaging Footnotes

¹ Based on HP internal analysis of 1U racked workstations with minimum 3 ISV certifications, configurable professional graphics, and a dedicated workstation brand as of October 2024. Most powerful based on max processor, graphics, memory, and power supply.

² Network access required. HP Anyware software and licensing are available through a 1- or 3-year subscription. Renewal is required after the subscription term. HP Anyware subscriptions are based on the number of concurrent PCoIP connections used (pay for the number of host connections, not the software) with a minimum order quantity of 5. For a limited time, an HP Anyware Professional subscription also includes access and support for ZCentral Remote Boost and ZCentral Connect and is available for purchase through an HP reseller or contact sales at hp.com/Anyware. ZCentral Remote Boost Sender requires Windows 10 and 11, RHEL/CentOS (7 or 8), or UBUNTU 18.04 or 20.04 LTS operating systems. macOS (10.14 or newer) operating system and ThinPro 7.2 are only supported on the receiver side. ZCentral Connect requires Windows (10 or 11) or Windows Server (2016 or 2019) operating system, Microsoft Active Directory, and Intel Active Management Technology for select features. For system requirements and to install HP Anyware and Anyware Manager, refer to the Admin Guides at: <https://docs.teradici.com/find/product/hp-anyware>.

³ HP Anyware Remote System Controller is sold separately and requires internet access. Automation of tasks and viewing system information only available with select Z desktop workstations, see datasheet for details. HP Anyware Integrated Remote System Controller not compatible with Z2 Mini platforms and not recommended for non-Z devices. HP service and support not available for non-Z devices. Full suite of hardware alerts available with select Z desktop workstations. See datasheet for details. HP Anyware Remote System Management must be purchased separately and is required for fleet management and viewing of consolidated reports from all devices. Planned to be available 2H of 2023.

⁴ Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.

⁵ Graphics are sold separately or as an optional feature.

⁶ Optional, configurable feature.

⁷ Applies to HP PCs, Workstations and Displays manufactured after January 2019. Based on most Gold and Silver EPEAT® registrations by meeting all required criteria and achieving 50-74% of the optional points for EPEAT® Silver and 75-100% of the optional points for EPEAT® Gold according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more information.

⁹ Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software, or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply, and additional requirements may apply over time for updates. See <http://www.windows.com>.

¹⁰ WSL2 requires Windows 10 or higher, Intel Core i5 processor or higher and is available on select Z workstations. You must be running Windows 10 version 2004 and higher (Build 19041 and higher) or Windows 11.

¹¹ Error Correction Code (ECC) memory is only available on Intel® Xeon® processor options.

¹² Graphics are sold separately or as an optional feature. One graphics card can be configured at purchase, additional graphics cards can be purchased as an after-market option.

¹³ Optional, configurable feature. Error Correction Code (ECC) memory is only available on Intel® Xeon® processor options.

¹⁴ Optional, configurable features. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB is reserved for system recovery software.

¹⁵ Second power supply available as configured to order or as an after-market option.

¹⁶ Optional dual slot riser required for additional two PCIe slots.

¹⁷ Rack mounting hardware available as configured to order or after market.

Technical Specifications Footnotes

¹ Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.

² Note: For detailed Linux® OS/hardware support information, see: http://www.hp.com/support/linux_hardware_matrix.

³ Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.

⁴ Intel vPro® requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or Wi-Fi 6E WLAN and TPM 2.0. Some functionality requires additional 3rd part software in order to run. Features of vPro® Essentials and Enterprise vary. See <http://intel.com/vpro>.

⁵ For hard drives and solid state drives, 1 GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35 GB of system disk is reserved for system recovery software.

⁶ 3.5" drive bay can be configured with a carrier to support two 2.5" drives. 2.5" drives sold separately. 2.5" drive bays support up to 2 M.2 drives with addition of HP 2.5 in Dual Drive Cage Adapter.

⁷ 16 GB, 32 GB, 64 GB 4800 MHz SDRAM are supported.

⁸ Optional or add-on feature.

⁹ Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information.

¹⁰ HP Performance Advisor Software - HP Performance Advisor is ready and waiting to help you get the most out of your HP Workstation from day one and every day after. Learn more or download at: <https://www8.hp.com/us/en/workstations/performance-advisor.html>.

¹¹ HP Support Assistant requires Windows and Internet access.

¹² HP Manageability Integration Kit can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>.

¹³ HP Sure Click requires Windows 10 or 11 Pro or higher. See https://bit.ly/2PrLT6A_SureClick for complete details.

¹⁴ HP Sure Start requires Windows 10 or 11 or higher.

¹⁵ HP Sure Recover Gen4 is available on select HP PCs and requires an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.

¹⁶ HP Sure Sense requires Windows 10 or 11 Pro or Enterprise and higher.

¹⁷ HP Sure Run Gen5 requires Windows 10 or 11 Pro or higher.

¹⁸ HP Sure Admin requires Windows 10 or higher, HP BIOS, HP Manageability Integration Kit from <http://www.hp.com/go/clientmanagement> and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.

¹⁹ HP Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.

²⁰ HP BIOSphere Gen6 features may vary depending on the platform and configurations.

²¹ HP Wolf Pro Security Edition is available preloaded on select SKUs, and, depending on the HP product purchased, includes a license with a term length communicated to you at purchase and in your order confirmation email. The HP Wolf Pro Security Edition software is licensed under the license terms of the HP Wolf Security Software - End-User license Agreement (EULA) that can be found at: https://support.hp.com/us-en/document/ish_3875769-3873014-16 as that EULA is modified by the following: 7. Term. Unless otherwise terminated earlier pursuant to the terms contained in this EULA, the license for the HP Wolf Pro Security Edition is effective upon 4 months after the date the HP Product was shipped by HP and will continue for the term communicated to you at purchase and in your order confirmation email ("Initial Term"). At the end of the Initial Term you may either (a) purchase a renewal license for the HP Wolf Pro Security Edition from HP.com, HP Sales or an HP Channel Partner, or (b) continue using the standard versions of HP Sure Click and HP Sure Sense at no additional cost with no future software updates or HP Support. Notwithstanding the foregoing, the license shall expire no later than one year after the fixed term of the subject license ends.

²² Note: Windows 7 and Windows 8 operating systems are not supported on this product. No Windows 7 or Windows 8 drivers will be provided on <http://www.support.hp.com>.

²⁴ Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for more information.

²⁵ Internet service required and sold separately.

²⁶ Network access required. HP Anyware software and licensing are available through a 1- or 3-year subscription. Renewal is required after the subscription term. HP Anyware subscriptions are based on the number of concurrent PCoIP connections used (pay for the number of host connections, not the software) with a minimum order quantity of 5. For a limited time, an HP Anyware Professional subscription also includes access and support for ZCentral Remote Boost and ZCentral Connect and is available for purchase through an HP reseller or contact sales at hp.com/Anyware. ZCentral Remote Boost Sender requires Windows 10 and 11, RHEL/CentOS (7 or 8), or UBUNTU 18.04 or 20.04 LTS operating systems. macOS (10.14 or newer) operating system and ThinPro 7.2 are only supported on the receiver side. ZCentral Connect requires Windows (10 or 11) or Windows Server (2016 or 2019) operating system, Microsoft Active Directory and Intel Active Management Technology for select features. For system requirements and to install HP Anyware and Anyware Manager, refer to the Admin Guides at: <https://docs.teradici.com/find/product/hp-anyware>.

²⁷ Z by HP Data Science Stack Manager requires Windows 10 version 21H2 (Build 19044) and higher or 64-bit Ubuntu 20.04 and is available on select Z workstations.

²⁸ HP Anyware Remote System Controller is an optional feature.

²⁹ Internet access required. Automation of tasks and viewing system information only available with select Z desktop workstations, see datasheet for details. Fleet management and viewing of consolidated reports from all devices requires HP Anyware Remote System Management. HP Anyware Integrated Remote System Controller not compatible with Z2 Mini platforms and not recommended for non-Z devices. HP service and support not available for non-Z devices. Full suite of hardware alerts available with select Z desktop workstations. See datasheet for details.

³⁰ myHP requires Windows OS.

³¹ HP Cloud Recovery is available for Z by HP, HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, wired network connection. Note: You must back up important files, data, photos, videos, etc. before use to avoid loss of data. For details, please refer to: <https://support.hp.com/us-en/document/c05115630>.

³² HP Services Scan is provided with Windows Update on select products and will check entitlement on each hardware device to determine if an HP TechPulse-enabled service has been purchased, and will download applicable software automatically. HP TechPulse is a telemetry and analytics platform that provides critical data around devices and applications. For full system requirements or to disable this feature, please visit <http://www.hpdaas.com/requirements>. Not applicable in China.

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